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In accordance with an added feature of the invention, the layer thickness of the semiconductor body has a specific charge density ρ in a direction z between the pn junction and the second main surface such that:

 $\int_{\rho(z)}^{w} \rho(z) dz \le 0.9 q_{c}$

in which q_c denotes a critical value of the charge quantity q in the semiconductor body at which the electrical breakdown is reached, said change quantity q being linked to an electric field strength E between the first electrode and the second electrode by the above equation

 $\int\limits_{0}^{\pi}\rho(z)dz=q \text{ and Poisson's equation } \nabla E=-4\pi\rho \ .$

In the Claims: Cancel claim 2.

Claim 1 (amended). A vertically structured power semiconductor component, comprising:

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a semiconductor body of a first conductivity type and having a first main surface and a second main surface opposite said first main surface;